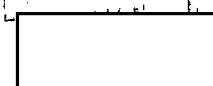


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19 May 65

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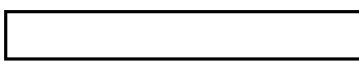
25X1

SUBJECT: Contract  Progress Review Meeting, 17, 18, 19 Mar 65

1. In accordance with the customer's message 4174, 12 Mar 65, a technical progress review meeting was held at the contractor's facility on 17, 18 and 19 Mar 65.

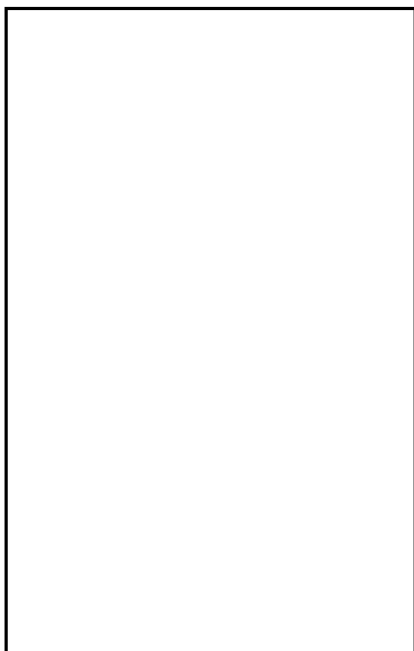
PERSONNEL PRESENT

25X1


2. Customer: 

3. Contractor: Contractor personnel listed below participated in PAR review and item discussion only as required:

25X1



DISCUSSION

4. During his three-day visit,  had discussions with the contractor's personnel listed above. Topics of discussion with a brief resume of each appear below. More complete summaries of several

25X1

GROUP 1
Excluded from automatic
downgrading and
declassification

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19 May 65

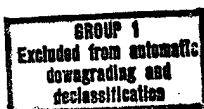
25X1

specific discussions appear as the following attachments to this report:

- a. Attachment #1 - Administrative.
- b. Attachment #2 - Briefing Aids.
- c. Attachment #3 - PAR 202, Briefing Print Enlarger; and PAR 224, Fluid Gate Enlarger.
- d. Attachment #4 - PAR 206, Reversal Processing.
- e. Attachment #5 - PAR 207, Definitive Study of Contact Printer.
- f. Attachment #6 - PAR 213, Color Reproduction Systems Review.
- g. Attachment #7 - PAR 214, Roller Transport Processor (12-Inch); and PAR 215, Roller Transport Processor (24-Inch).

5. General:

- a. [] agreed that the contractor submit two monthly and one quarterly report for each quarter. The quarterly report will be in lieu of a monthly report but will include progress during the third month of each quarter as well as a summary of the first two months' progress.
- b. [] requested cost estimate summaries on all old PARs (PARs submitted before present system of including estimate summaries was used.)
- c. The contracting officer will write the contractor clarifying the intent of Contract []
- d. The contractor is to submit cost estimates for PAR 201, Travel and Liaison; and for Administration for FY-65 and FY-66.
- e. [] will forward approved PAR short titles in the near future.
- f. In future reports, contractor is to omit completed PARs from the fiscal summary.

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19 May 65

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b. Contractor is to submit a PAR for the preparation of briefing aids. The cost estimate is to be broken down by PAR number and is to include cost of all art work, sketches and planning effort expended to date. (PAR 237, Briefing Aids, was submitted to the customer on 7 May 65).

8. The following material was given to [redacted]

25X1

a. One copy each of Preliminary Installation Engineering Data on the RT-12-R and RT-24, both dated 16 Mar 65.

b. Five copies of PSE Vol. 5, No. 3, pp 129 - 135, Altman and Henn Paper.

c. Polaroid photographs of Briefing Print Enlarger Negative Transport.

d. Polaroid photographs of RT-24 processor.

e. A set of half-tone masters consisting of four glass plates and two Estar-base film copies.

ACTION ITEMS

9. Customer Action:

a. Paragraph 5.c. - Clarify intent of contract.

b. Paragraph 5.e. - Forward approved PAR short titles.

(Accomplished 28 Apr 65).

c. Attachment #6 - PAR 213, Color Reproduction Systems

Review: Supply contractor with list of materials to complement briefing aids.

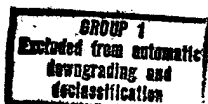
10. Contractor Action:

a. Paragraph 5.b. - Submit cost estimates on old PARs.

b. Paragraph 5.d. - Submit cost estimates for PAR 201, Travel and Liaison; and PAR 239, Administration for FY-65 and FY-66.

c. Paragraph 6.a.(1) - Omit Board #8.

d. Paragraph 7.a. - Submit new PAR for equipment installation. (PAR 238 submitted 10 May 65).

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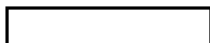
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19 May 65

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- e. Paragraph 7.b. - Submit new PAR for Briefing Aid.
(PAR 237 submitted 7 May 65).
- f. Attachment #2 - Make changes in Briefing Boards itemized in attachment.
- g. Attachment #3 - Test use of tetrachlorethylene as fluid gate material.
- h. Attachment #4 - Make briefing aid changes listed in attachment.
- i. Attachment #6 - PAR 213, Color Dupe Study: Upon receipt of list of materials from customer, contractor to advise customer on availability and cost.

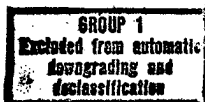


GJF:MSS

Attachment - 15 pages



25X1



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Attachment #1

23 Mar 65

25X1

SUBJECT: Contract [] - Progress Review Meeting - Administrative

VISITOR: []

CONTRACTOR PERSONNEL: []

25X1

1. [] has replaced [] as Technical Representative of the Contracting Officer for the Contract [] program.

25X1

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2. The contractor will be receiving changes to the contract concerning paragraph 2, Exhibit "A", Authorization to Proceed. The changes will authorize the Technical Representatives to approve, terminate and add to or subtract from PARs.

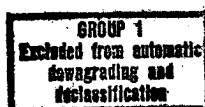
3. [] made it clear that the contractor wants to be covered for termination costs of any terminated PAR.

4. [] said that authorizations on PARs would be given verbally with confirmation in writing to follow. [] stated that the contractor will not proceed without paper authorization. Where written authorization from the Technical Representative is expected, the contractor will initiate a TWX stating the understanding of the authorization and request concurrence.

25X1

ACTION ITEMS

5. None.

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Attachment #2

23 Mar 65

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SUBJECT: Contract [] - Progress Review Meeting - Briefing Aid Discussion

25X1

VISITOR: []

CONTRACTOR PERSONNEL: []

1. Legibility of type size and styles was checked by [] at a viewing distance of 30 feet. He agreed that 60 point, Futura, Semi-Bold Type or equivalent is necessary for legibility at this distance. A copy of the attached "Standard for Visual Aids" prepared by the contractor for the [] Contract was given to []

25X1

2. The following changes to contractor's proposed briefing boards for five PARs were presented by [] These changes are covered under action items listed below.

25X1

25X1

ACTION ITEMS

3. PAR 202, Briefing Print Enlarger; and PAR 224, 3 - 15X Fluid Gate Enlarger:

a. Charts 1 through 4 required the title: "BRIEFING PRINT ENLARGER AND 3X - 15X ENLARGER".

b. Show centerline of optical system and provide indication of negative transport and easel adjustment.

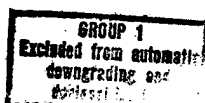
4. PAR 222, Stereo Registration System:

a. Charts 1 through 5 required the title: "AUTO STEREO REGSTRN SYSTEM".

b. On Chart 1, change each 'NEG' to "POSITIVE".

25X1

5. PAR 217, Optimization of Lasers: The customer's Project Engineer had specified nonstandard type size. During this meeting, [] obtained approval to follow the contractor's standard. Requirements for Chart 1 of 1 are as follows:

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Attachment #2

23 Mar 65

25X1

a. Title: "OPTIMIZATION OF LASERS".

b. Subtitle: "CYAN LASER

SCHEMATIC DIAGRAM OF SYSTEM

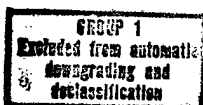
FOR SECOND HARMONIC GENERATION

OF 0.53 MICRON LASER RADIATION"

c. Color code the light paths in the schematic and print the name of the color appropriately on the optical centerline; i.e., between the laser and the beam-splitter print "IR", above the centerline, between the KDP crystal and the heat absorber print "IR+", above the centerline and "CYAN" below the centerline, between the heat absorber and the phototube print "CYAN" above the centerline and "ONLY" below the centerline.

6. PAR 212, Color Acquisition System Review Study: Charts 1 through 4 required the title "COLOR ACQ. STUDY".

7. PAR 206, Reversal Processing of High-Resolution Films Study: It was agreed that the contractor would review sketches of the proposed briefing aids and submit new sketches as outlined in attachment #4, PAR 206.



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SECRETEnclosure to
Attachment #2
5 Jan 65

25X1

STANDARDS FOR VISUAL AIDS

1.0 General

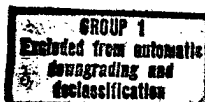
These standards provide briefing boards for the contract which will be legible when viewed from a distance of thirty (30) feet. Primarily, the content of these boards will be used to brief management-type personnel on program status. To accommodate larger audiences at viewing distances greater than thirty (30) feet, teleprompter slides will be made of these boards.

25X1

2.0 Proposed Sketches

Sketches of "all" proposed briefing boards shall be submitted to the customer for approval. These boards shall be identified by the PAR No., the Chart No., and a date. This identification data shall be located in the upper right hand corner of the sketch sheet. When "new" material must be prepared, the following standard should be followed in preparation of sketches of proposed 22" x 30" briefing boards:

- (a) Size of submittal sheet: 8 1/2" x 14".
- (b) Major axis of "Submittal Sheet" format: horizontal.
- (c) Location of Briefing Board Outline: 1 1/8" from left edge of sheet and centered on vertical 8 1/2" dimension of the submittal sheet.
- (d) Outline of the 22" x 30" Briefing Board: 1/4 size (horizontal or vertical orientation).
- (e) Location of PAR No., Chart No., and date: Upper righthand corner of submittal sheet.
- (f) Except for the identification, etc., in the upper right-hand corner, the right side of the sheet is for customer comment and/or approval. However, when double format or vertical format are considered necessary or desirable, this should be annotated on the right hand side with an explanation for the recommended format.
- (g) Board color (background) should be specified on the submittal sheet.

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Enclosure to
Attachment #2

5 Jan 65

25X1

2.1 Submittal Requirements

Two prints of each proposed chart are required by the customer.

3.0 Briefing Board Requirements

3.1 Board Material

Show-card material with stiffness equal to or greater than Crescent Illustration Board No. 300 or No. 310, cold press surface, medium weight.

3.1.2 Brief Board Color

Boards with gray or colored background are preferred.

3.2 Brief Board Sizes

Horizontal format should be used whenever possible.

Horizontal Format 22" High x 30" Wide

Vertical Format 30" High x 22" Wide

Double Format 30" High x 44" Wide

3.2.1 Art Work and Data Area

a. Single Format:

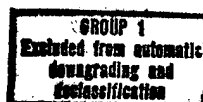
Horizontal: 17 3/4" High x 25" Wide, centered
on 22" x 30" Board

Vertical: 25" High x 17 3/4" Wide, centered
on the 30" x 22" Board

b. Double Format:

Horizontal: 25 3/4" High x 39" Wide, centered
on the 30" x 44" Board

Vertical: 39" High x 25 3/4" Wide, centered
on 44" x 30" Wide Board



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SECRETEnclosure to
Attachment #2

5 Jan 65

25X1

3.3 Lettering

In general, block lettering without serifs is acceptable; it is preferred that titles, subtitles, and annotations be made with "Headliner".

3.3.1 Size and Style of Lettering

The following are in the order of preference:

Titles:

- (1) 72 Point Capitals and Numerals, Futura Bold, (Headliner)
- (2) Block Lettering, hand lettered, 1" High, No. 1/2 Speedball Pen

Subtitles:

- (1) 60 Point Capitals and Numerals, Futura Bold (Headliner)
- (2) Block Lettering, hand lettered, 3/4" High, No. 1 Speedball Pen

Annotations:

- (1) 60 Point Capitals and Numerals, Futura Semi-Bold (Headliner)
- (2) Block Lettering, 5/8" High, No. 2 Speedball Pen or equivalent lettering

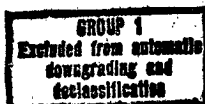
3.3.1.2 Location of Titles

Shortened PAR titles shall be located in the upper left hand corner of the briefing board, 2 1/2" from the left edge and 2 1/8" below the top edge.

Subtitles shall be spaced 7/16" below the title and 2 1/2" from the left edge of the briefing board.

3.3.1.3 Line Spacing

Blocks of printed matter (5/8" High) for more than one line shall have a space between lines of 3/8".

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SECRETEnclosure to
Attachment #2

5 Jan 65

25X1

3.4 Delineations

Sketches, diagrams, tables, graphs, etc., contain lines; the weight of these lines will have to be selected for best appearance. Their thickness will vary with the complexity of the subject. The following line weights are considered minimal for legibility at a viewing distance of thirty (30) feet:

<u>Line Weights</u>	<u>Minimal Width of Line</u>
(a) Grid lines, diagram details Lightest table rulings	1/32"
(b) Borders, heavy table rulings, Outlines of vessels & structures	1/16"
(c) Data lines on graphs, flow lines on charts	1/8"
(d) Minimum width and spacing of color coded lines	3/16"
(e) Extension lines (call outs)	1/16"

3.5 Teleprompter Slides

The images reproduced on these slides will be those of the Briefing Board or equivalent.

3.5.1 Glass Mount

Size: 3 1/4" High x 4" Wide (Major axis always horizontal).

3.5.2 Image Area

Size: 2 5/8" High x 3 1/2" Wide.

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Attachment #3

23 Mar 65

25X1

25X1 SUBJECT: Contract [] Progress Review Meeting - 17, 18, 19 Mar 65-
PAR 202, Briefing Print Enlarger; and PAR 224, 3X - 15X Fluid
Gate Enlarger

25X1 VISITOR: []

CONTRACTOR PERSONNEL: []

25X1

25X1 1. A tour of the 469 Model Shop and [] engineering
area was made to show [] the breadboard units which have been fabri-
cated. Specific items shown were:

a. The Negative Transport. [] inquired about the
possible need for a tapered key to engage the film spool to avoid "hunting"
of the film during the print exposure. We indicated the nature of the
drive design kept torque on each spool in one direction to avoid backlash.

25X1

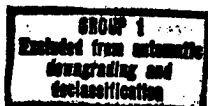
b. The machined aluminum platen casting and its plexiglas
face plate.

25X1 c. The Buffalo Forge Blower which will supply vacuum for
the platen. [] is concerned about the noise generated by such a
blower. We described our expected acoustical enclosure for the blower,
and he indicated he believes it will be a difficult problem.

d. The focus magnification table display unit. This
provided opportunity to describe the expected focus control system and
the use of a computer program to write the table.

e. The rough breadboard of the vertical fluid gate was
demonstrated with Freon 113. In spite of the customer's desire to not
use Freon 113, it is still in use in [] with adequate ventilation.
(Note: We should try to use tetrachloroethylene unless it requires ser-
ious mechanical complication for its removal from the film and even then
should discuss the problems in detail before using Freon.)

25X1

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Attachment #3

23 Mar 65

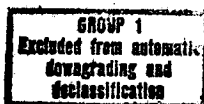
25X1

2. We discussed the proposed exposure prediction system based upon integrated transmittance and subject classification in an eight-inch diameter area at the center of the projected image. [] does not feel this system will work. We pointed out it has worked in a commercial situation with a wider range of subject matter than encountered here and that the breadboard model being made here is an appropriate place to try it out. No change was directed.

25X1

ACTION ITEM

3. Contractor to try tetrachlorethylene in vertical gate.



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Attachment #4

23 Mar 65

25X1

25X1 SUBJECT: Contract [] Progress Review Meeting - 19 Mar 65 -
25X1 PAR 206, Reversal Processing of High-Resolution Films Study

VISITOR: []

CONTRACTOR PERSONNEL: []

25X1

25X1 1. [] had been advised that the final report of this project was in preparation. The contractor reported no significant changes had been found for results published in earlier reports.

2. Most of the interest was centered on the design of briefing aids. From examination of our submitted drafts, [] recommended the following changes:

25X1

a. Indicate the printing operation at each step where it occurs. This affects all three charts, and may be accomplished by properly footnoted symbol, by statement (where printing always occurs at each step) or by the word "PRINT".

b. Achieve better directional effect with arrows. Some arrows shown are not in line with the flow path.

c. Rework subtitles for clarity. Subtitles may complement the project title.

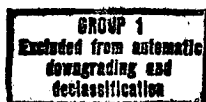
d. Use Roman Numerals to indicate the generation levels in the systems.

e. Consider deletion of the word "silver" for exposed and unexposed stages prior to the development step.

3. The customer also indicated a desired ordering of the material for presentation, but since charts will be numbered in pencil on the back, this is no problem.

ACTION ITEM

4. Make above changes in briefing aids.

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Attachment #5

23 Mar 65

25X1

25X1 SUBJECT: Contract [] - Progress Review Meeting - 18 Mar 65 -
PAR 207, Definitive Study of Contact Printers

25X1 VISITOR: []

CONTRACTOR PERSONNEL: []

25X1

1. A demonstration of the Moire' pattern technique for distortion determination was presented by []

25X1

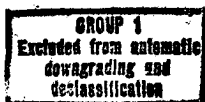
The principal points covered were:

- a. Equipment needed.
- b. Determination of the finer-grained "ghost" cancellation point.
- c. Centering the Moire' pattern.
- d. Positioning of the grid for determination of the X-Y coordinates of each point.

2. A set of halftone masters, consisting of four glass plates and two Estar-base film copies, was presented to [] per his request last November. A letter containing commentary on the preparation of the various forms of halftone masters, as well as general instructions on their use in the Moire' technique, had been previously written and was presented to [] on Friday, 19 Mar 65.

25X1

3. [] commented on our use of resolution as one of the printer evaluation tools. His impression was that as of last November we had rejected it from further consideration due to its many inherent weaknesses. We indicated no recollection of such a plan, and stated our wish to retain resolution (probably via the Air Force Resolution Target) as one of the test procedures. (Our later re-check of the meeting minutes from 19 Nov 64 and subsequent routine PAR 207 reports, confirmed our continuing plans to use resolution.

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Attachment #5

23 Mar 65

25X1

25X1 4. [] asked if the Moire' technique would not tell us all that resolution targets could, regarding resolution, slippage, and contact. Our experience indicates that poor contact, and therefore poor resolution, can be experienced without an obvious effect on the Moire' pattern. Therefore, the use of resolution targets is required until MTF or other more advanced means of evaluating image quality can be made practical and more meaningful.

5. In view of this, [] agreed that it was appropriate to retain resolution as a measuring tool even though we mutually agreed that there are many weaknesses in its use.

25X1

6. We have found the Moire' technique to be vastly superior to resolution targets for detecting slippage and all other types of distortion, such as stretching, shrinking, uneven (diagonal) tension, etc.

7. There was some discussion regarding sharp edge targets such as those made by the Bureau of Standards or the contractor's []

25X1

25X1 [] [] has an interest in X-ray exposed edges on glass plates, but for PAR 207 we must have an Estar-base film copy. Since the BuStds cannot readily make what we want, it is hoped that the []
25X1 [] can.

8. There was also some comment regarding resolution target. We have to make our own because we cannot purchase any of suitable quality. [] indicated that they also have a problem getting usable targets; apparently, they make their own too.

9. Briefing aids were referred to during the above discussions, but were not covered as a separate topic.

ACTION ITEMS

10. None.

**SECRET**